

**Project No. 1251-100**  
**Crude Oil Tank Farms Project, Agrood Area 30 (Module-1)**



<b>System ID</b>	030-LP-009
<b>System Description</b>	Transformers & pumps water spray system

Sr.	Pre-Commissioning and Commissioning Dossier Index	Applicable (Yes/No)
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2	Ready for Startup Certificate (RFSU)	
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4	System Limits Marked Up P&ID	
5	System Index	
6	Piping Pre-Commissioning	
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Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



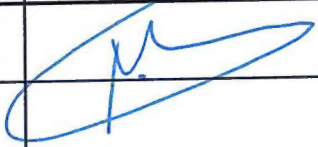
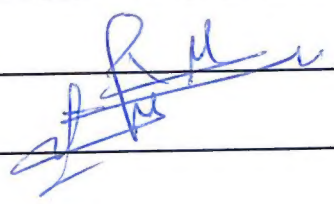

System ID	030-LP-009
System Description	Transformers & pumps water spray system

### 1-Mechanical Completion Certificate (MCC)

**SYSTEM MECHANICAL COMPLETION CERTIFICATE  
(MCC)****PROJECT TITLE** : CRUDE OIL TANK FARM(AGROOD AREA)**PROJECT No** : 1251-100**SYSTEM NAME** : Transformers & pumps water spray system**SYSTEM ID** : 030-LP-009**THIS IS TO CERTIFY THAT:**

- THE ABOVE SYSTEM HAS BEEN FABRICATED, ERECTED, INSTALLED AND TESTED TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS, THE APPLICABLE CODES AND STANDARDS.
- ALL PRE-COMMISSIONING RELEVANT ACTIVITIES, TESTS, INSPECTIONS AND CHECKS HAVE BEEN CARRIED OUT FOR THIS SYSTEM AND FOUND ACCEPTABLE.
- Q/C DOCUMENTATION OF THE ABOVE SYSTEM HAS BEEN AUDITED BY THE CUSTOMER SITE QUALITY CONTROL AND FOUND COMPLETED.
- ALL PUNCH LIST ITEMS CATEGORY (A) IN THIS SUBSYSTEM WERE CLEARED.
- THIS SYTEM IS MECHANICALLY COMPLETED ON THE DATE 13/07/2021 AND READY FOR COMMISSIONING (RFC) WITH THE FOLLOWING EXCEPTIONS.

**EXCEPTIONS :****NOTE: ACCEPTANCE OF THE ABOVE SYSTEM DOES NOT RELIEVE ENPPI/CONSTRUCTION CONTRACTOR FROM THEIR CONTRACTUAL OBLIGATIONS AND RESPONSIBILITIES.**

COMPANY	PETROJET	ENPPI	PPC
NAME	M.abdallah		
TITLE	P.C engineer		
SIGNATURE			
DATE	13/07/2021		



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 2- Ready for Startup Certificate (RFSU)



## READY FOR START UP CERTIFICATE

**PROJECT TITLE** : EGPC CRUDE OIL TANK FARMS PROJECT (AGROOD-020)

**PROJECT No.** : 1251-100

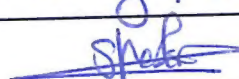

**SYSTEM /AREA /PLANT** : Transformers & pumps water spray system

**SYSTEM /AREA /PLANT No.** : 030-LP-009

**THIS IS TO CERTIFY THAT:**

- THE MENTIONED SYSTEM /AREA /PLANT IS READY FOR START UP WHERE ALL MECHANICAL WORKS, PRECOMMISSIONING AND COMMISSIONING ACTIVITIES HAVE BEEN SUCCESSFULLY COMPLETED.
- MECHANICAL COMPLETION CERTIFICATE(S) FOR THE MENTIONED SYSTEM / AREA / PLANT HAVE BEEN SIGNED.
- ISSUANCE OF THIS READY FOR START UP CERTIFICATE(S) SHALL NOT RELIEVE CONTRACTOR(S) FROM THEIR OBLIGATIONS TO COMPLETE THE REMAINING SYSTEMS NOR FROM THEIR WARRANTY OBLIGATIONS AND OTHER PROVISIONS OF THE CONTRACT.
- THE FOLLOWING EXCEPTIONS AGREED TO BE CLEARED AFTER START UP AND WILL NOT PREVENT START UP ACTIVITIES.

**EXCEPTIONS :**

COMPANY	CONSORTIUM	PPC
NAME	Ahmed El Shafie	M. Saleh
TITLE	Commissioning Manager	Site Manager
SIGNATURE		
DATE	28-8-2021	31/08/2021





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

### 3- System Punch Lists

## PUNCH LIST

PROJECT TITLE : CRUDE OIL TANK FARM(AGROOD AREA)

PROJECT NUMBER : 1251-100

DISCIPLINE :

SYSTEM NAME : Transformers & Pumps Water Spray System

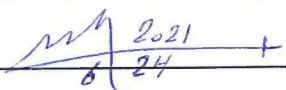
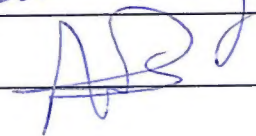
SYSTEM ID : 030-LP-009

SUB-SYSTEM NAME :

SUB-SYSTEM ID :

No	DESCRIPTION	CAT	ACTION BY	DISP	CLEARANCE APPROVED BY
1	(SV-002) Instrument to be installed	A	PTJ	Elec	Clear M. Omar
2	(SV-002) cable to be terminated and tested	A	PTJ	Elec	
3	(PSH-010) Cable to be terminated and tested	A	PTJ	Elec	
4	(PSH-009) Cable to be tested	A	PTJ	Elec	
5	(SV-001) Instrument to be installed	A	PTJ	Elec	
6	Cable tray to be installed for devices	B	PTJ	Elec	
7	(SV-001) Cable to be tested	A	PTJ	elec	
8	Six remaining Loops to be reinstated	A	PTJ	Mech	PTJ
9	Wall openings to be sealed	B	PTJ	civil	any
10	House Keeping for Transformers Area	B	PTJ	civil	any

CAT: CATEGORY (A,B,C) , ACTION BY: (ENPPI, CONST. CONTRACTOR, SUPPLIER...), DISP: DISCIPLINE (PIP, MECH, ELECT, INST...)

COMPANY	PETROJET	ENPPI	<del>SUMED</del> PM/E
NAME	Abdullah Ramadan	Abdullah Fathy	Mohamed Omar
SIGNATURE			M. Omar
DATE	2021 6/24		



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

#### 4- System Limits Marked Up P&ID



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 5- System Index



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 6- Piping Pre-Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 6.01- Piping Test Packs





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 6.02- Piping Pre-commissioning Check Lists



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 7- Piping Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 7.01- Service Test, GLT, CLT and N2 Purging Certificates





# Enppi



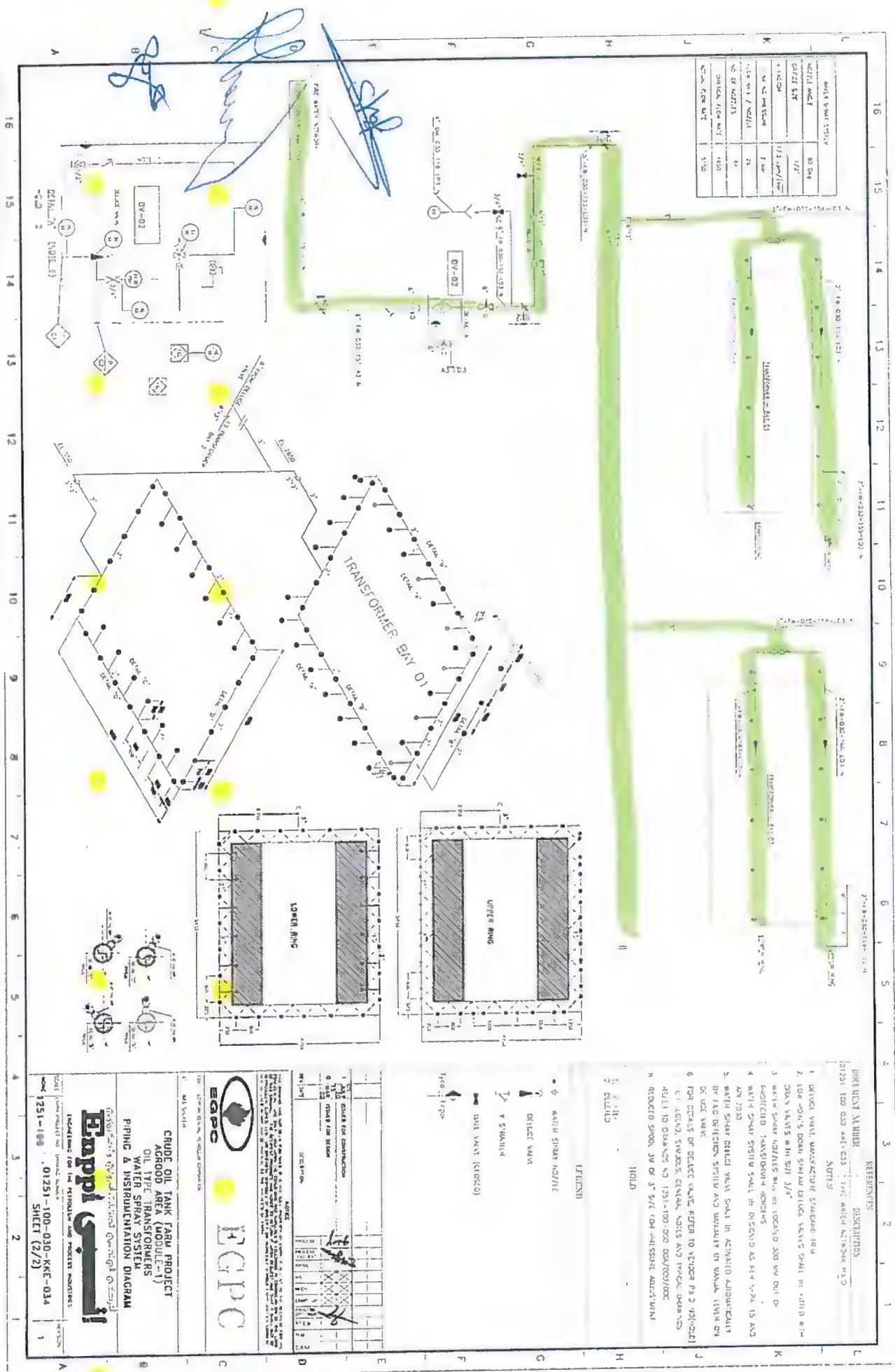
## Service Test Certificate of Completion and Acceptance

Client	Egyptian General Petroleum Corporation (EGPC)
Project No.	1251-100
Project Description	Crude Oil Tank Farm Project
Location	Agrood Area 30 (Module-01)
System	030-LP-009 (Transformers & Pumps Water Spray System)
Loop No.	030-LP-009 (Transformers & Pumps Water Spray System)
Test Medium	Firefighting Water
Test Pressure	Service Test
Completion Date	31-8-2021
Attachments	Leak Test Loop Marked-up P&ID

### Remarks

- This is to certify that the system described in this certificate of completion has been **Leak tested using water** after final reinstatement and mechanical completion for the system in accordance with the requirements of the scope of work.
- The test has been witnessed by client representatives and accepted as complete in all aspects on the data marked on the certificate of completion and acceptance.
- The test has been completed to the client satisfaction.

Performed by PETROJET	Supervised by ENPPI	Approved by PPC
Name: <i>Ahmed El Sayed</i>	Name: <i>Ahmed El Shafie</i>	Name: <i>Msaleh</i>
Title: <i>Hydrotest Engineer</i>	Title: <i>Commissioning Manager</i>	Title: <i>Site Manager</i>
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Date: <i>31/8/2021</i>	Date: <i>31-8-2021</i>	Date: <i>31/08/2021</i>











## Service Test Certificate of Completion and Acceptance

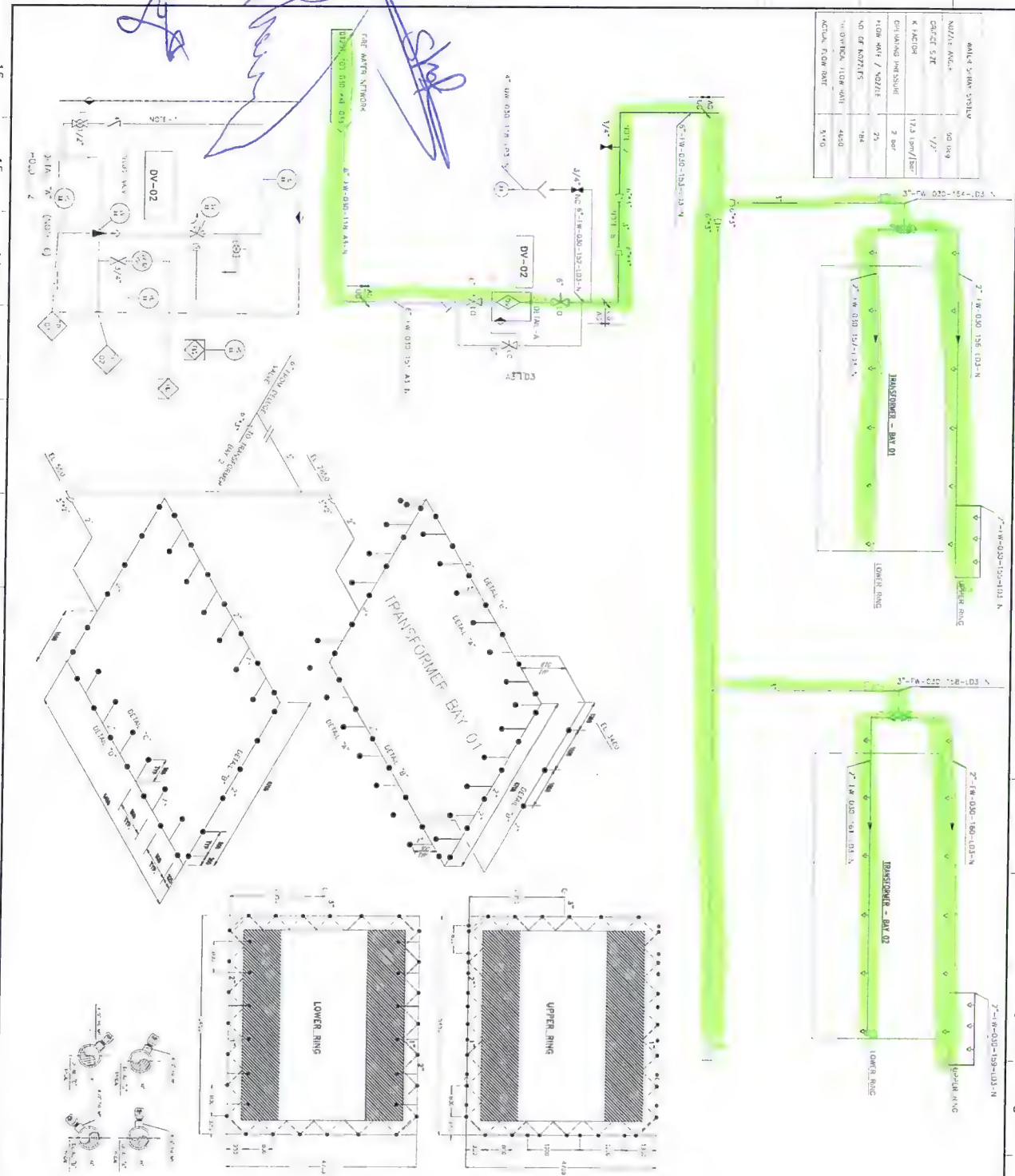
Client	Egyptian General Petroleum Corporation (EGPC)
Project No.	1251-100
Project Description	Crude Oil Tank Farm Project
Location	Agrood Area 30 (Module-01)
System	030-LP-009 (Transformers & Pumps Water Spray System)
Loop No.	030-LP-009 (Transformers & Pumps Water Spray System)
Test Medium	Firefighting Water
Test Pressure	Service Test
Completion Date	31-8-2021
Attachments	Leak Test Loop Marked-up P&ID

### Remarks

- This is to certify that the system described in this certificate of completion has been **Leak tested using water** after final reinstatement and mechanical completion for the system in accordance with the requirements of the scope of work.
- The test has been witnessed by client representatives and accepted as complete in all aspects on the data marked on the certificate of completion and acceptance.
- The test has been completed to the client satisfaction.

Performed by PETROJET	Supervised by ENPPI	Approved by PPC
Name: <i>Ahmed El Sayed</i>	Name: <i>Ahmed El Shafie</i>	Name: <i>Msaleh</i>
Title: <i>Hydrotest Engineer</i>	Title: <i>Commissioning Manager</i>	Title: <i>Site Manager</i>
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Date: <i>31/8/2021</i>	Date: <i>31-8-2021</i>	Date: <i>31/08/2021</i>

WATER SPRAY SYSTEM	100 (4.9)
ORIG. SIZE	1/2"
K FACTOR	12.5 lpm/ft²
EXTENDING INSULATED	2 BAY
WATER / NOZZLE	25'
NO. OF NOZZLES	4650
WATER FLOW RATE	5140



DOCUMENT NUMBER	DESCRIPTION
01251-100-030-KKE-033	WATER NETWORK P&ID

NOTES

1. WATER SPRAY SYSTEM SHALL BE ACTIVATED AUTOMATICALLY BY F&C DETECTION SYSTEM AND MANUALLY BY MANUAL LEVER ON DELUGE VALVE.
2. LOW POINT DOWN STREAM DELUGE VALVES SHALL BE FILLED WITH DRAIN VALVES WITH SIZE 3/4".
3. WATER SPRAY NOZZLES SHALL BE LOCATED 300 MM CUT OFF PROTECTED TRANSFORMER BAY BORDERS.
4. WATER SPRAY SYSTEM SHALL BE DESIGNED AS PER NFPA-15 AND API 2003.
5. WATER SPRAY DELUGE VALVE SHALL BE ACTIVATED AUTOMATICALLY BY F&C DETECTION SYSTEM AND MANUALLY BY MANUAL LEVER ON DELUGE VALVE.
6. FOR DETAILS OF DELUGE VALVE, REFER TO VENDOR P&ID NO(010101).
7. FOR LEGEND, SYMBOLS, DIMENSIONS, AND TOLERANCES, REFER TO DIMENSIONS NO. 01251-100-030-KKE-033/000.
8. REDUCED SPOOL, 5M OR 3" SIZE FOR PRESSURE ADJUSTMENT.

LEGEND

- WATER SPRAY NOZZLE
- DELUGE VALVE
- ▽ SPRINKLER
- BALL VALVE (CLOSED)

ITEM	DESCRIPTION
1	WATER SPRAY NOZZLE
2	DELUGE VALVE
3	SPRINKLER
4	BALL VALVE (CLOSED)



EGPC

**Enppi**  
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

CRUDE OIL TANK FARM PROJECT  
AGROOD AREA (MODULE-1)  
OIL TYPE TRANSFORMERS  
WATER SPRAY SYSTEM  
PIPING & INSTRUMENTATION DIAGRAM

01251-100-030-KKE-034  
SHEET (2/2)







Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 7.02- Piping Commissioning Check Lists



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 8- Mechanical Pre-Commissioning





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 8.01- System Mechanical Index



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 8.02- Equipment Drawings



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

### 8.03- Equipment Datasheets



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

#### 8.04- Boxing-up Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 8.05- Grouting Certificates





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 8.06- Pre-Alignment Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 8.07- Mechanical Pre-Commissioning Checklists



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 9- Mechanical Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 9.01- Final Alignment Certificates





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 9.02- Motor Solo Run Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

### 9.03- Mechanical Run Test (MRT) Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 9.04- Mechanical Commissioning Checklists



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 9.05- Mechanical Supplier Check Lists & Reports





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 10- Instrumentation Pre-Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 10.01- System Instrument Index



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 10.02- Instrument Data Sheets



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
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### 10.03- Instrument Cable Schedule



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
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#### 10.04- System Instrumentation Wiring Diagram





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



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## 10.05- Hook-up Drawing (Mechanical & Pneumatic)



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 10.06- Instruments Cables Schedule



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 10.07- Instruments Cables Laying Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 10.08- Instruments Cables Termination Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
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## 10.09- Instruments Cables Testing Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 10.10- Instruments Calibration Certificates





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
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## 10.11- Instrument Loop Checks Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
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## 10.12- Instrumentation Pre-Commissioning Check Lists



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

### 10.13- Instrumentation Supplier Check Lists & Reports



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 11- Instrumentation Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
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## 11.01- Instrumentation Function Test Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 11.02- Instrumentation Supplier Check Lists & Reports





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 12- Electrical Pre-Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 12.01- System Electrical Index

U30-LP-U09  
Transformers & pumps water spray system

Loss Prevention  
Loss Prevention

030-DV-001  
030-DV-002

Deluge Valve  
Deluge Valve

Checklist  
Checklist

LP-04 A  
LP-04 A

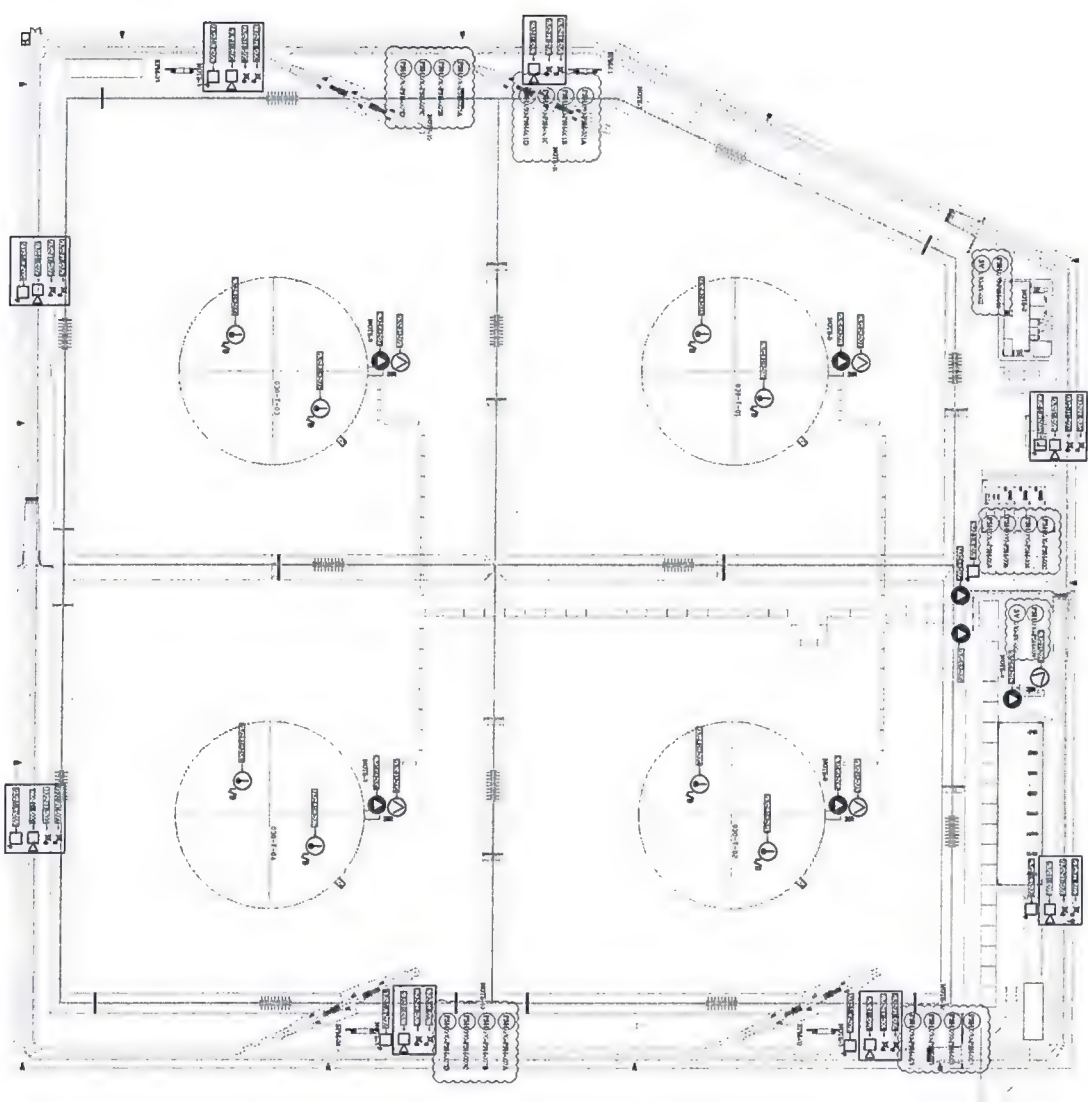
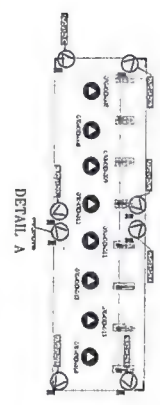
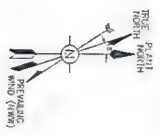


Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 12.02- Electrical Drawings



REFERENCES	
INCIDENT NUMBER	01231-100-053-AD-001
PROJECT LOCATION	EGPC, 3rd FLOOR
DATE	01/01

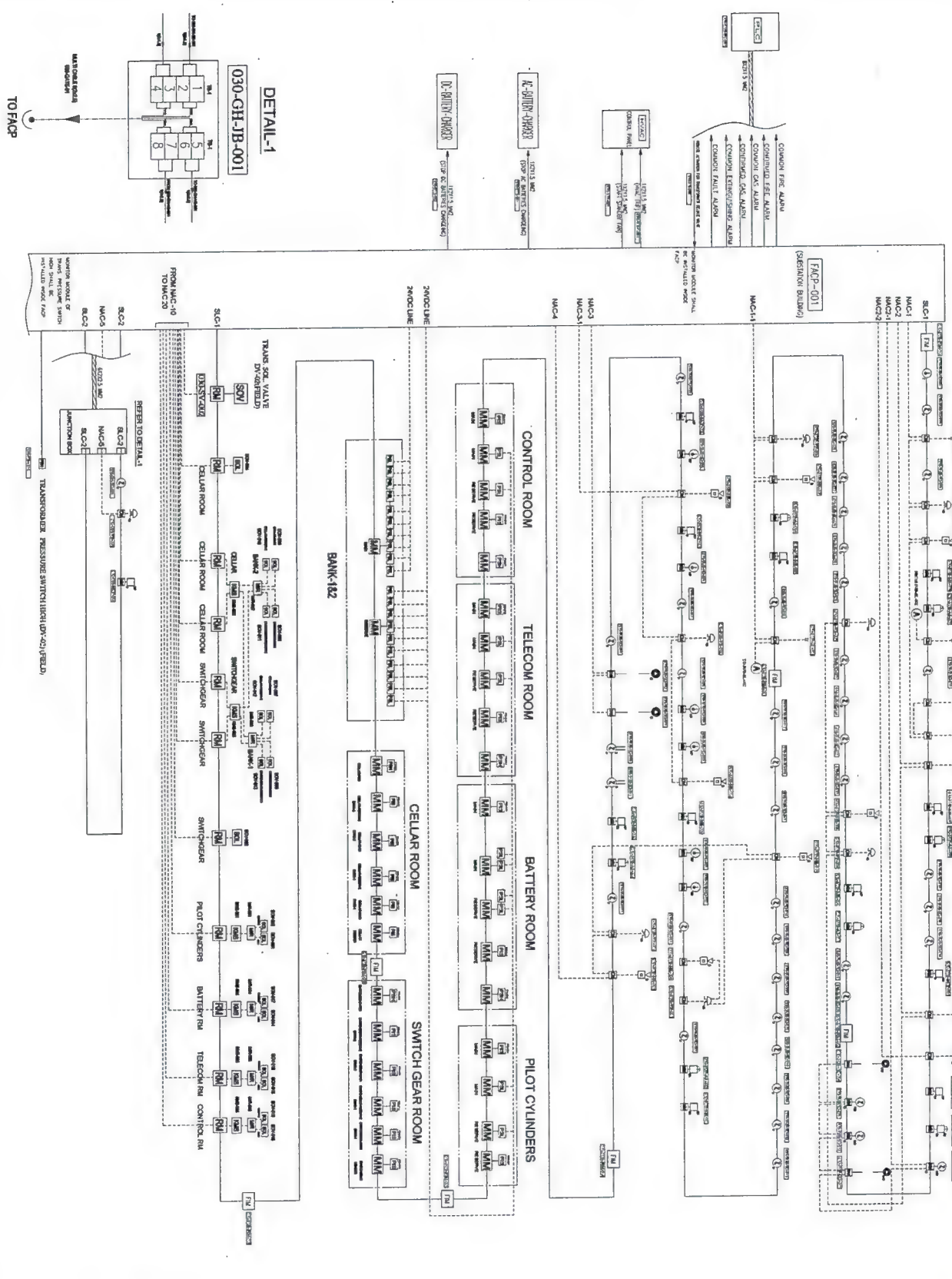
SYMBOL	DESCRIPTION
(1)	ELECTRICAL LINEAR KEYS DETECTOR
(2)	FLAME DETECTOR (TYPICAL INWARD)
(3)	COMBUSTIBLE GAS DETECTOR
(4)	MANUAL STATION (PULL STATION)
(5)	ALARM BELL (BELL-TONE)
(6)	STROBE LIGHT (RED, FLASH)
(7)	STROBE LIGHT (BLUE, FLASH)
(8)	PRESSURE SWITCH HIGH
(9)	SOLIDATOR VALVE OR REDUCER VALVE



KEY PLAN	
1	FLAME DETECTOR (TYPICAL INWARD)
2	COMBUSTIBLE GAS DETECTOR
3	MANUAL STATION (PULL STATION)
4	ALARM BELL (BELL-TONE)
5	STROBE LIGHT (RED, FLASH)
6	STROBE LIGHT (BLUE, FLASH)
7	PRESSURE SWITCH HIGH
8	SOLIDATOR VALVE OR REDUCER VALVE



EGPC GROUP ON TANK FARM  
AGRODREA (MONSIEUR)  
FIRE AND GAS DETECTION LAYOUT



CONTINUE REFERENCES	CONTINUE REFERENCES
<p>1. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-001</p> <p>2. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-002</p> <p>3. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-003</p> <p>4. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-004</p> <p>5. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-005</p> <p>6. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-006</p> <p>7. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-007</p> <p>8. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-008</p> <p>9. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-009</p> <p>10. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-010</p>	<p>1. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-011</p> <p>2. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-012</p> <p>3. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-013</p> <p>4. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-014</p> <p>5. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-015</p> <p>6. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-016</p> <p>7. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-017</p> <p>8. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-018</p> <p>9. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-019</p> <p>10. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-020</p>

**EGPC**  
EGPC CRUDE OIL TANK FARM  
(AREA-030) AIRROD-1  
FIRE AND GAS ADDRESSABLE ALARM SYSTEM  
RISER DIAGRAM

EGPC  
EGPC CRUDE OIL TANK FARM  
(AREA-030) AIRROD-1  
FIRE AND GAS ADDRESSABLE ALARM SYSTEM  
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**REFERENCES**

1. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-001

2. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-002

3. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-003

4. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-004

5. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-005

6. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-006

7. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-007

8. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-008

9. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-009

10. EOPC (Emergency Oil Pipeline Control) - 030-GH-1B-010





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

### 12.03- Motor Datasheets



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 12.04- Electrical Cables Schedule

ITEM	CABLE TAG	CABLE COMPOSITION mm2	SIGNAL TYPE	SHIELDING overall	SHIELDING Indiv.	ARM	FROM	TO	LENGTH (m)	EXT. COLOUR SHEATH	EXT. O.D.M (mm)	GLAND TYPE (NOTE-2)	DRUM NO.	CABLE CODE	NOTE	Rev
6	030FD002	1 X 3 X 2.5 mm2	AI	YES	YES	YES	030FD002	030AUBF01	420	RED	17.53	PAP901-M20	CD-000-F5-02	F8		2
7	030FD004	1 X 3 X 2.5 mm2	AI	YES	YES	YES	030FD004	030AUBF01	910	RED	17.53	PAP901-M20	CD-000-F5-03	F8		2
8	030GD004	1 X 3 X 2.5 mm2	AI	YES	YES	YES	030GD004	030AUBF01	910	RED	17.53	PAP901-M20	CD-000-F5-03	F8		2
9	030GD005	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030GD005	030AUBF01	20	RED	16	PAP901-M20	CD-000-F5-01	F5		2
10	030GD006	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030GD006	030AUBF01	20	RED	16	PAP901-M20	CD-000-F5-01	F5		2
11	030FD013	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030FD013	030AUBF02	130	RED	16	PAP901-M20	CD-000-F5-01	F5		2
2	030GD015	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030GD015	030AUBF02	130	RED	16	PAP901-M20	CD-000-F5-01	F5		2
3	030FD006	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030FD006	030AUBF02	80	RED	16	PAP901-M20	CD-000-F5-01	F5		2
4	030GD009	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030GD009	030AUBF02	50	RED	16	PAP901-M20	CD-000-F5-01	F5		2
5	030GD010	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030GD010	030AUBF02	40	RED	16	PAP901-M20	CD-000-F5-01	F5		2
6	030GD007	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030GD007	030AUBF02	60	RED	16	PAP901-M20	CD-000-F5-01	F5		2
7	030GD008	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030GD008	030AUBF02	20	RED	16	PAP901-M20	CD-000-F5-01	F5		2
8	030FD007	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030FD007	030AUBF02	80	RED	16	PAP901-M20	CD-000-F5-01	F5		2
9	030FD005	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030FD005	030AUBF02	90	RED	16	PAP901-M20	CD-000-F5-01	F5		2
17	030FD010	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030FD010	030AUBF03	80	RED	16	PAP901-M20	CD-000-F5-01	F5		2
2	030FD011	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030FD011	030AUBF03	120	RED	16	PAP901-M20	CD-000-F5-01	F5		2
3	030FD008	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030FD008	030AUBF03	30	RED	16	PAP901-M20	CD-000-F5-01	F5		2
4	030GD013	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030GD013	030AUBF03	90	RED	16	PAP901-M20	CD-000-F5-01	F5		2
5	030GD014	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030GD014	030AUBF03	110	RED	16	PAP901-M20	CD-000-F5-01	F5		2
6	030GD011	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030GD011	030AUBF03	20	RED	16	PAP901-M20	CD-000-F5-01	F5		2
7	030GD012	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030GD012	030AUBF03	70	RED	16	PAP901-M20	CD-000-F5-01	F5		2
8	030FD012	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030FD012	030AUBF03	120	RED	16	PAP901-M20	CD-000-F5-01	F5		2
9	030FD009	1 X 3 X 1.5 mm2	AI	YES	YES	YES	030FD009	030AUBF03	50	RED	16	PAP901-M20	CD-000-F5-01	F5		2
14	030FD016	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD016	MARSHALLING CABINET	220	RED	23.2	PAP901-M20	CD-000-F7-01	F7		2
15	030FD15A	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15A	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-02	F7		2
16	030FD15B	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15B	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-03	F7		2
17	030FD15C	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15C	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-04	F7		2
18	030FD15D	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15D	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-05	F7		2
19	030FD15E	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15E	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-06	F7		2
20	030FD15F	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15F	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-07	F7		2
21	030FD15G	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15G	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-08	F7		2
22	030FD15H	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15H	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-09	F7		2
23	030FD15I	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15I	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-10	F7		2
24	030FD15J	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15J	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-11	F7		2
25	030FD15K	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15K	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-12	F7		2
26	030FD15L	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15L	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-13	F7		2
27	030FD15M	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15M	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-14	F7		2
28	030FD15N	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15N	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-15	F7		2
29	030FD15O	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15O	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-16	F7		2
30	030FD15P	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15P	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-17	F7		2
31	030FD15Q	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15Q	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-18	F7		2
32	030FD15R	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15R	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-19	F7		2
33	030FD15S	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15S	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-20	F7		2
34	030FD15T	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15T	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-21	F7		2
35	030FD15U	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15U	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-22	F7		2
36	030FD15V	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15V	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-23	F7		2
37	030FD15W	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15W	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-24	F7		2
38	030FD15X	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15X	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-25	F7		2
39	030FD15Y	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15Y	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-26	F7		2
40	030FD15Z	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15Z	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-27	F7		2
41	030FD15A	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15A	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-28	F7		2
42	030FD15B	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15B	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-29	F7		2
43	030FD15C	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15C	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-30	F7		2
44	030FD15D	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15D	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-31	F7		2
45	030FD15E	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15E	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-32	F7		2
46	030FD15F	8 X 2 X 1.5 mm2	DIGITAL	YES	YES	YES	030FD15F	MARSHALLING CABINET	240	RED	23.2	PAP901-M20	CD-000-F7-33	F7		2

	TB NO.	TERMINAL STRIP/SIGNAL
Cabinet No.1	TB 5	TB5-1/SIG9B+
		TB5-2/SIG9B-
		TB5-3/SIG10B+
		TB5-4/SIG10B-
	TB 8	TB5-5/SIG11B+
		TB5-6/SIG11B-
		TB8-1/SIG15B+
		TB8-2/SIG15B-
		TB8-3/SIG16B+
		TB8-4/SIG16B-
		TB8-5/SIG17B+
		TB8-6/SIG17B-
	TB 9	TB8-7/SIG18B+
		TB8-8/SIG18B-
		TB8-9/SIG19B+
		TB8-10/SIG19B-
		TB8-11/SIG20B+
		TB8-12/SIG20B-
		TB9-1/SLC2B+
		TB9-3/SLC2A+
		TB9-4/SLC2A-

	TB NO.	TERMINAL STRIP/SIGNAL
Cabinet No.2	TB 12	TB12-1/AUX13C
		TB12-2/AUX13C
		TB12-3/AUX14C
		TB12-4/AUX14C
		TB12-5/AUX15C
		TB12-6/AUX15C
		TB12-7/AUX16C
		TB12-8/AUX16C
		TB12-9/AUX17C
		TB12-10/AUX17C
		TB12-11/AUX18C
		TB12-12/AUX18C
		TB12-13/AUX19C
		TB12-14/AUX19C
		TB12-15/AUX20C
		TB12-16/AUX20C
	TB 16	TB16-1/SIG33B+
		TB16-2/SIG33B-
		TB16-3/SIG34B+
		TB16-4/SIG34B-
		TB16-5/SIG35B+
		TB16-6/SIG35B-
		TB16-7/SIG36B+
		TB16-8/SIG36B-
	TB 17	TB16-9/SIG37B+
		TB16-10/SIG37B-
		TB16-11/SIG38B+
		TB16-12/SIG38B-
		TB17-1/SIG39B+
		TB17-2/SIG39B-
		TB17-3/SIG40B+
		TB17-4/SIG40B-
	TB 6	TB17-5/SIG41B+
		TB17-6/SIG41B-
		TB17-7/SIG42B+
		TB17-8/SIG42B-
		TB17-9/SIG43B+
		TB17-10/SIG43B-
		TB17-11/SIG44B+
		TB17-12/SIG44B-
	TB 10	TB6-1/lo17
		TB6-2/lo17c
		TB6-3/lo18
		TB6-4/lo18c
		TB10-1/SLC3B+
		TB10-2/SLC3B-
		TB10-3/SLC3A+
		TB10-4/SLC3A-

	TB NO.	TERMINAL STRIP/SIGNAL
Cabinet No.3	TB 11	TB11-1/AUX9C
		TB11-2/AUX9C
		TB11-3/AUX10C
		TB11-4/AUX10C
		TB11-5/AUX11C
		TB11-6/AUX11C
		TB11-7/AUX12C
		TB11-8/AUX12C
	TB 13	TB13-1/SIG21B+
		TB13-2/SIG21B-
		TB13-3/SIG22B+
		TB13-4/SIG22B-
		TB13-5/SIG23B+
		TB13-6/SIG23B-
		TB13-7/SIG24B+
		TB13-8/SIG24B-
	TB 14	TB13-9/SIG25B+
		TB13-10/SIG25B-
		TB13-11/SIG26B+
		TB13-12/SIG26B-
		TB14-1/SIG27B+
		TB14-2/SIG27B-
		TB14-3/SIG28B+
		TB14-4/SIG28B-
		TB14-5/SIG29B+
		TB14-6/SIG29B-



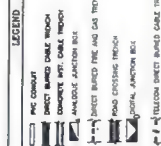
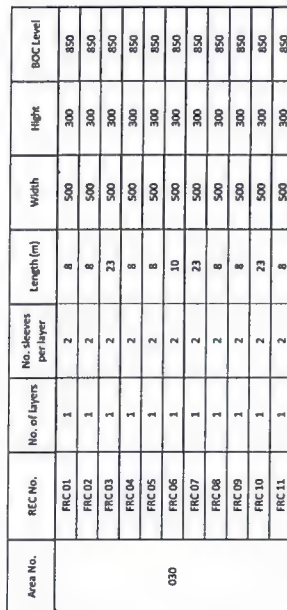
Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 12.05- Electrical Cables Laying Certificates





KEY PLAN		NO.	DATE	BY	CHKD.	APPD.
1	REVISION FOR CONSTRUCTION	1.1	1.1	1.1	1.1	1.1
2	REVISION FOR CONSTRUCTION	2.1	2.1	2.1	2.1	2.1
3	REVISION FOR CONSTRUCTION	3.1	3.1	3.1	3.1	3.1
4	REVISION FOR CONSTRUCTION	4.1	4.1	4.1	4.1	4.1
5	REVISION FOR CONSTRUCTION	5.1	5.1	5.1	5.1	5.1
6	REVISION FOR CONSTRUCTION	6.1	6.1	6.1	6.1	6.1
7	REVISION FOR CONSTRUCTION	7.1	7.1	7.1	7.1	7.1
8	REVISION FOR CONSTRUCTION	8.1	8.1	8.1	8.1	8.1
9	REVISION FOR CONSTRUCTION	9.1	9.1	9.1	9.1	9.1
10	REVISION FOR CONSTRUCTION	10.1	10.1	10.1	10.1	10.1
11	REVISION FOR CONSTRUCTION	11.1	11.1	11.1	11.1	11.1
12	REVISION FOR CONSTRUCTION	12.1	12.1	12.1	12.1	12.1
13	REVISION FOR CONSTRUCTION	13.1	13.1	13.1	13.1	13.1
14	REVISION FOR CONSTRUCTION	14.1	14.1	14.1	14.1	14.1
15	REVISION FOR CONSTRUCTION	15.1	15.1	15.1	15.1	15.1
16	REVISION FOR CONSTRUCTION	16.1	16.1	16.1	16.1	16.1
17	REVISION FOR CONSTRUCTION	17.1	17.1	17.1	17.1	17.1
18	REVISION FOR CONSTRUCTION	18.1	18.1	18.1	18.1	18.1
19	REVISION FOR CONSTRUCTION	19.1	19.1	19.1	19.1	19.1
20	REVISION FOR CONSTRUCTION	20.1	20.1	20.1	20.1	20.1
21	REVISION FOR CONSTRUCTION	21.1	21.1	21.1	21.1	21.1
22	REVISION FOR CONSTRUCTION	22.1	22.1	22.1	22.1	22.1
23	REVISION FOR CONSTRUCTION	23.1	23.1	23.1	23.1	23.1
24	REVISION FOR CONSTRUCTION	24.1	24.1	24.1	24.1	24.1
25	REVISION FOR CONSTRUCTION	25.1	25.1	25.1	25.1	25.1
26	REVISION FOR CONSTRUCTION	26.1	26.1	26.1	26.1	26.1
27	REVISION FOR CONSTRUCTION	27.1	27.1	27.1	27.1	27.1
28	REVISION FOR CONSTRUCTION	28.1	28.1	28.1	28.1	28.1
29	REVISION FOR CONSTRUCTION	29.1	29.1	29.1	29.1	29.1
30	REVISION FOR CONSTRUCTION	30.1	30.1	30.1	30.1	30.1
31	REVISION FOR CONSTRUCTION	31.1	31.1	31.1	31.1	31.1
32	REVISION FOR CONSTRUCTION	32.1	32.1	32.1	32.1	32.1
33	REVISION FOR CONSTRUCTION	33.1	33.1	33.1	33.1	33.1
34	REVISION FOR CONSTRUCTION	34.1	34.1	34.1	34.1	34.1
35	REVISION FOR CONSTRUCTION	35.1	35.1	35.1	35.1	35.1
36	REVISION FOR CONSTRUCTION	36.1	36.1	36.1	36.1	36.1
37	REVISION FOR CONSTRUCTION	37.1	37.1	37.1	37.1	37.1
38	REVISION FOR CONSTRUCTION	38.1	38.1	38.1	38.1	38.1
39	REVISION FOR CONSTRUCTION	39.1	39.1	39.1	39.1	39.1
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41	REVISION FOR CONSTRUCTION	41.1	41.1	41.1	41.1	41.1
42	REVISION FOR CONSTRUCTION	42.1	42.1	42.1	42.1	42.1
43	REVISION FOR CONSTRUCTION	43.1	43.1	43.1	43.1	43.1
44	REVISION FOR CONSTRUCTION	44.1	44.1	44.1	44.1	44.1
45	REVISION FOR CONSTRUCTION	45.1	45.1	45.1	45.1	45.1
46	REVISION FOR CONSTRUCTION	46.1	46.1	46.1	46.1	46.1
47	REVISION FOR CONSTRUCTION	47.1	47.1	47.1	47.1	47.1
48	REVISION FOR CONSTRUCTION	48.1	48.1	48.1	48.1	48.1
49	REVISION FOR CONSTRUCTION	49.1	49.1	49.1	49.1	49.1
50	REVISION FOR CONSTRUCTION	50.1	50.1	50.1	50.1	50.1
51	REVISION FOR CONSTRUCTION	51.1	51.1	51.1	51.1	51.1
52	REVISION FOR CONSTRUCTION	52.1	52.1	52.1	52.1	52.1
53	REVISION FOR CONSTRUCTION	53.1	53.1	53.1	53.1	53.1
54	REVISION FOR CONSTRUCTION	54.1	54.1	54.1	54.1	54.1



EGPC

EGPC CRUDE OIL TANK FARM  
FIRE AND GAS CABLE ROUTING LAYOUT  
AGROOD AREA (MODULE-1)

1000	01251-100-030-AX0-001	01/03	2
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Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 12.06- Electrical Cables Testing Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 12.07- Electrical Cables Termination Certificates

**Enppi****EGPC CRUDE OIL TANK FARM**

Owner:

Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030

Contractor

CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-0003

Revision No. : 02

**REQUEST FOR INSPECTION**

ACTIVITY :

INS TERMINATION

NOTIFICATION NO.

PTJ-INST-RFI- 118

DISCIPLINE :

FIRE ALARM

DATE :

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	INS TERMINATION	SUBSTATION AND CONTROL BUILDING/AGROOD-2					
1	FACP-SLC-2 / 030-SUB-FIM-001						
2	030-SUB-FIM-001 / 030-SUB-HD-007						
3	030-SUB-HD-007 / 030-SUB-SD-039						
4	030-SUB-SD-039 / 030-SUB-SL-003						
5	030-SUB-SL-003 / 030-SUB-SD-038						
6	030-SUB-SD-038 / 030-SUB-VB-009						
7	030-SUB-VB-009 / 030-SUB-HR-011						
8	030-SUB-HR-011 / 030-SUB-MR-008						
9	030-SUB-MR-008 / 030-SUB-AS-007						
10	030-SUB-AS-007 / 030-SUB-SL-002						
11	030-SUB-SL-002 / 030-SUB-SD-037						
12	030-SUB-SD-037 / 030-SUB-VB-008						
13	030-SUB-VB-008 / 030-SUB-HR-010						
14	030-SUB-HR-010 / 030-SUB-HR-009						
15	030-SUB-HR-009 / 030-SUB-MR-007						
16	030-SUB-MR-007 / 030-SUB-AS-006						
17	030-SUB-AS-006 / 030-SUB-SD-036						
18	030-SUB-SD-036 / 030-SUB-SD-035						
19	030-SUB-SD-035 / 030-SUB-SD-034						
20	030-SUB-SD-034 / 030-SUB-MCP-003						
21	030-SUB-MCP-003 / 030-SUB-HR-008						
22	030-SUB-HR-008 / 030-SUB-VB-007						
23	030-SUB-VB-007 / 030-SUB-MR-006						
24	030-SUB-MR-006 / 030-SUB-AS-005						
25	030-SUB-AS-005 / 030-SUB-SD-033						
26	030-SUB-SD-033 / 030-SUB-GD-003						
27	030-SUB-GD-003 / 030-SUB-SD-032						
28	030-SUB-SD-032 / 030-SUB-SD-031						
29	030-SUB-SD-031 / 030-SUB-GD-004						
30	030-SUB-GD-004 / 030-SUB-FIM-002						
31	030-SUB-FIM-002 / 030-SUB-SD-020						
32	030-SUB-SD-020 / 030-SUB-SD-019						
33	030-SUB-SD-019 / 030-SUB-AS-003						
34	030-SUB-AS-003 / 030-SUB-MR-004						
35	030-SUB-MR-004 / 030-SUB-VB-004						

**NOTE:**

Inspection result : A - Approved B - Reject C - Approved with Comment

Cable enclosure cover to be installed.

NAME :	PETROJET	ENPPI	PMC
SIGNATURE	<i>Sobh</i>	<i>Islam Sherif</i>	Mohamed Omar
DATE			M. Omar
			12/9/2011

**Enppi**

EGPC CRUDE OIL TANK FARM



Owner: Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030

Contractor: CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-0003  
Revision No. : 2**REQUEST FOR INSPECTION**

ACTIVITY: INS TERMINATION

NOTIFICATION NO. : PTJ-INST-RFI-117 DISCIPLINE : FIRE ALARM

DATE :

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	INS TERMINATION	SUBSTATION AND CONTROL BUILDING/AGROOD-2					
1	030-SUB-VB-004 / 030-SUB-HR-006						
2	030-SUB-HR-006 / 030-SUB-SD-021						
3	030-SUB-SD-021 / 030-SUB-SD-022						
4	030-SUB-SD-022 / 030-SUB-SD-024						
5	030-SUB-SD-024 / 030-SUB-SD-023						
6	030-SUB-SD-023 / 030-SUB-VB-005						
7	030-SUB-VB-005 / 030-SUB-SD-025						
8	030-SUB-SD-025 / 030-SUB-SD-026						
9	030-SUB-SD-026 / 030-SUB-SD-028						
10	030-SUB-SD-028 / 030-SUB-SD-027						
11	030-SUB-SD-027 / 030-SUB-SD-029						
12	030-SUB-SD-029 / 030-SUB-VB-006						
13	030-SUB-VB-006 / 030-SUB-HR-007						
14	030-SUB-HR-007 / 030-SUB-AS-004						
15	030-SUB-AS-004 / 030-SUB-MR-005						
16	030-SUB-MR-005 / 030-SUB-SD-030						
17	030-SUB-SD-030 / 030-SUB-SL-001						
18	030-SUB-SL-001 / 030-SUB-FIM-003						
19	030-SUB-FIM-003 / 030-SUB-SD-012						
20	030-SUB-SD-012 / 030-SUB-SD-010						
21	030-SUB-SD-010 / 030-SUB-SD-017						
22	030-SUB-SD-017 / 030-SUB-HR-005						
23	030-SUB-HR-005 / 030-SUB-SD-016						
24	030-SUB-SD-016 / 030-SUB-SD-008						
25	030-SUB-SD-008 / 030-SUB-SD-006						
26	030-SUB-SD-006 / 030-SUB-SD-015						
27	030-SUB-SD-015 / 030-SUB-SD-014						
28	030-SUB-SD-014 / 030-SUB-SD-004						
29	030-SUB-SD-004 / 030-SUB-SD-002						
30	030-SUB-SD-002 / 030-SUB-SD-013						
31	030-SUB-SD-013 / 030-SUB-MR-003						
32	030-SUB-MR-003 / 030-SUB-AS-002						
33	030-SUB-AS-002 / 030-SUB-SD-001						
34	030-SUB-SD-001 / 030-SUB-VB-003						
35	030-SUB-VB-003 / 030-SUB-HR-004						

**NOTE:**

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME:			
SIGNATURE			
DATE			12/19/2021



**Enppi****EGPC CRUDE OIL TANK FARM**Owner : **Egyptian General Petroleum Corporation (EGPC)**

Project No: 01251-100-030

Contractor **CONSORTIUM (ENPPI / PETROJET)**

Document No: ITR-QC-0003

Revision No. : 2

**REQUEST FOR INSPECTION**ACTIVITY : **INS TERMINATION**NOTIFICATION NO. : **PTJ-INST-RFI-118** DISCIPLINE : **FIRE ALARM**

DATE :

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	<b>INS TERMINATION</b>	<b>SUBSTATION AND CONTROL BUILDING/AGROOD-2</b>					
1	030-SUB-HR-004 / 030-SUB-SD-003						
2	030-SUB-SD-003 / 030-SUB-HD-002						
3	030-SUB-HD-002 / 030-SUB-HD-001						
4	030-SUB-HD-001 / 030-SUB-MR-001						
5	030-SUB-MR-001 / 030-SUB-HR-001						
6	030-SUB-HR-001 / 030-SUB-HD-003						
7	030-SUB-HD-003 / 030-SUB-HD-004						
8	030-SUB-HD-004 / 030-SUB-SD-005						
9	030-SUB-SD-005 / 030-SUB-VB-002						
10	030-SUB-VB-002 / 030-SUB-SD-007						
11	030-SUB-SD-007 / 030-SUB-HD-005						
12	030-SUB-HD-005 / 030-SUB-MCP-001						
13	030-SUB-MCP-001 / 030-SUB-HR-002						
14	030-SUB-HR-002 / 030-SUB-HD-006						
15	030-SUB-HD-006 / 030-SUB-MCP-002						
16	030-SUB-MCP-002 / 030-SUB-SD-009						
17	030-SUB-SD-009 / 030-SUB-SD-018						
18	030-SUB-SD-018 / 030-SUB-GD-002						
19	030-SUB-GD-002 / 030-SUB-GD-001						
20	030-SUB-GD-001 / 030-SUB-SD-040						
21	030-SUB-SD-040 / 030-SUB-SD-041						
22	030-SUB-SD-041 / 030-SUB-MR-002						
23	030-SUB-MR-002 / 030-SUB-AS-001						
24	030-SUB-AS-001 / 030-SUB-SD-011						
25	030-SUB-SD-011 / 030-SUB-VB-001						
26	030-SUB-VB-001 / 030-SUB-HR-003						
27	030-SUB-HR-003 / 030-SUB-FIM-004						
28	030-SUB-FIM-004 / PIS-016						
29	PIS-016/PIS-019						
30	PIS-019/PSL-019						
31	PSL-019/PSL-016						
32	PSL-016/PSL-018						
33	PSL-018/PSL-015						
34	PSL-015/PIS-015						
35	PIS-015/PIS-018						

**NOTE:**

Inspection result : A - Approved B - Reject C - Approved with Comment

NAME :	PETROJET	ENPPI	PMC
SIGNATURE	<i>Sobh</i>	<i>Islam Sherif</i>	<i>Mohamed Omar</i>
DATE			<i>M. Omar</i>
			<i>12/9/2021</i>

**Enppi****EGPC CRUDE OIL TANK FARM**Owner : **Egyptian General Petroleum Corporation (EGPC)**

Project No: 01251-100-030

Contractor **CONSORTIUM (ENPPI / PETROJET)**

Document No: ITR-QC-0003

Revision No. : 2

**REQUEST FOR INSPECTION**ACTIVITY : **INS TERMINATION**NOTIFICATION NO. : **PTJ-INST-RFI- 118** DISCIPLINE : **FIRE ALARM**

DATE :

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	<b>INS TERMINATION</b>	<b>SUBSTATION AND CONTROL BUILDING/AGROOD-2</b>					
1	PIS-018/PS-004						
2	PS-004/PIS-014						
3	PIS-014/PIS-017						
4	PIS-017/PSL-017						
5	PSL-017/PSL-014						
6	PSL-014/PIS-001						
7	PIS-001/PIS-002						
8	PIS-002/PSL-001						
9	PSL-001/PSL-002						
10	PSL-002/PIS-003						
11	PIS-003/PIS-004						
12	PIS-004/FIM-005						
13	FIM-005/PSL-007						
14	PSL-007/PS-001						
15	PS-001/PS-002						
16	PS-002/PIS-007						
17	PIS-007/PIS-012						
18	PIS-012/PIS-013						
19	PIS-013/PIS-009						
20	PIS-009/PSL-008						
21	PSL-008/PS-003						
22	PS-003/PS-005						
23	PS-005/FIM-006						
24	FIM-006/PIS-006						
25	PIS-006/PIS-011						
26	PIS-011/PIS-005						
27	PIS-005/PIS-010						
28	PIS-010/FIM-007						
29	FIM-007/ RM CONTROL RM						
30	RM CONTROL RM/ RM TELECOM RM						
31	RM TELECOM RM/RM BATTERY RM						
32	RM BATTERY RM/RM PILOT CYLINDERS						
33	RM PILOT CYLINDERS/RM SWITCHGEAR						
34	RM SWITCHGEAR/RM SWITCHGEAR						
35	RM SWITCHGEAR/RM SWITCHGEAR						

**NOTE:**

Inspection result : A - Approved B - Reject C - Approved with Comment

NAME :	PETROJET	ENPPI	PMC
SIGNATURE	<i>Sobh</i>	<i>Isma Sherif</i>	<i>Mohamed Omar</i>
DATE			<i>12/9/2021</i>



**Enppi****EGPC CRUDE OIL TANK FARM**Owner : **Egyptian General Petroleum Corporation (EGPC)**

Project No: 01251-100-030

Contractor **CONSORTIUM (ENPPI / PETROJET)**

Document No: ITR-QC-0003

Revision No. : 2

**REQUEST FOR INSPECTION**ACTIVITY : **INS TERMINATION**NOTIFICATION NO. : **PTJ-INST-RFI- 118** DISCIPLINE : **FIRE ALARM**

DATE :

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	<b>INS TERMINATION</b>	<b>SUBSTATION AND CONTROL BUILDING/AGROOD-2</b>					
1	RM SWITCH GEAR RM / RM CELLAR RM						
2	RM CELLAR RM / RM CELLAR RM						
3	RM CELLAR RM / RM CELLAR RM						
4	RM CELLAR RM / RM 030-SV-002						
5	RM 030-SV-002 / FACP-SLC-2						
6	FACP-SIG-39/ 030-SUB-SL-003						
7	030-SUB-SL-003 / 030-SUB-VB-009						
8	030-SUB-VB-009 / 030-SUB-HR-011						
9	030-SUB-HR-011 / 030-SUB-HR-010						
10	030-SUB-HR-010 / 030-SUB-VB-008						
11	FACP-SIG-41 / 030-SUB-HR-009						
12	030-SUB-HR-009 / 030-SUB-HR-008						
13	030-SUB-HR-008 / 030-SUB-VB-004						
14	030-SUB-VB-004 / 030-SUB-HR-006						
15	030-SUB-HR-006 / 030-SUB-VB-005						
16	FACP-SIG-15 / 030-SUB-SD-033						
17	030-SUB-SD-033 / 030-SUB-GD-003						
18	030-SUB-GD-003 / 030-SUB-SD-032						
19	030-SUB-SD-032 / 030-SUB-SD-031						
20	030-SUB-SD-031 / 030-SUB-GD-004						
21	FACP-SIG-44 / 030-SUB-VB-007						
22	FACP-SIG-40 / 030-SUB-VB-006						
23	030-SUB-VB-006 / 030-SUB-HR-007						
24	030-SUB-HR-007 / 030-SUB-SL-001						
25	030-SUB-SL-001 / 030-SUB-SL-002						
26	FACP-SIG-18 / 030-SUB-GD-002						
27	030-SUB-GD-002 / 030-SUB-GD-001						
28	FACP-SIG-42/ 030-SUB-HR-002						
29	030-SUB-HR-002 / 030-SUB-VB-002						
30	030-SUB-VB-002 / 030-SUB-HR-001						
31	FACP-SIG-43 / 030-SUB-HR-003						
32	030-SUB-HR-003 / 030-SUB-VB-001						
33	030-SUB-VB-001 / 030-SUB-HR-005						
34	030-SUB-HR-005 / 030-SUB-VB-003						
35	030-SUB-VB-003 / 030-SUB-HR-004						

**NOTE:**

Inspection result : A - Approved B - Reject C - Approved with Comment

NAME :	PETROJET	ENPPI	PMC
SIGNATURE	<i>Sobh</i>	<i>Islam Shem</i>	Mohamed amar
DATE			M. amar
			12/9/2021



**Enppi**

EGPC CRUDE OIL TANK FARM



Owner:

Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030

Contractor

CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-0003

Revision No.: 2

**REQUEST FOR INSPECTION**

ACTIVITY:

INS TERMINATION

NOTIFICATION NO.:

PTJ-INST-RFI- 118

DISCIPLINE:

FIRE ALARM

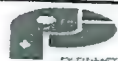
DATE:

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	INS TERMINATION	SUBSTATION AND CONTROL BUILDING/AGROOD-2					
1	FACP-SIG16 / PSL-007						
2	FACP-SIG17 / PSL-008						
3	PSL-008 / PSL-002						
4	PSL-002 / PSL-001						
5	PSL-001 / PSL-017						
6	PSL-017 / PSL-014						
7	PSL-014 / PSL-018						
8	PSL-018 / PSL-015						
9	PSL-015 / PSL-019						
10	PSL-019 / PSL-016						
11	FACP-SIG-21 / CELLAR RM						
12	FACP-SIG-22/ CELLAR RM						
13	FACP-SIG-23/ CELLAR RM						
14	FACP-SIG-24/ SWITCH GEAR RM						
15	FACP-SIG-27 / PILOT CYLINDERS RM						
16	FACP-SIG-28 / 030-SV-002						
17	FACP-SIG-29/ SWITCH GEAR RM						
18	FACP-SIG-33 / SWITCH GEAR RM						
19	FACP-SIG-34 / BATTERY RM						
20	FACP-SIG-35 / TELECOM RM						
21	FACP-SIG-36 / CONTROL RM						
22	RM CELLER ROOM / KMS-002						
23	KMS-002 / M/R-002						
24	M/R-002 / SOV-005						
25	M/R-002 / SOV-010						
26	M/R-002 / SOV-006						
27	M/R-002 / SOV-011						
28	RM CELLER ROOM / KMS-002						
29	KMS-002 / M/R-003						
30	M/R-003 / SOV-007						
31	M/R-003 / SOV-0012						
32	M/R-003 / SOV-009						
33	M/R-003 / SOV-0013						
34	RM SWITCHGEAR / KMS-003						
35							

**NOTE:**

Inspection result: A - Approved B - Reject C - Approved with Comment

NAME:	PETROJET	ENPPI	PMC
SIGNATURE	<i>Sobh</i>	<i>Islam Sherif</i>	<i>Mohamed Omar</i>
DATE			<i>12/8/2021</i>

**Enppi****EGPC CRUDE OIL TANK FARM**

Owner: **Egyptian General Petroleum Corporation (EGPC)** Project No: 01251-100-030

Contractor: **CONSORTIUM (ENPPI / PETROJET)** Document No: ITR-QC-0003

Revision No. : 2

**REQUEST FOR INSPECTION**

ACTIVITY: **INS TERMINATION**

NOTIFICATION NO. : **PTJ-INST-RFI- 118** DISCIPLINE : **FIRE ALARM**

DATE : \_\_\_\_\_

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	<b>INS TERMINATION</b>	<b>SUBSTATION AND CONTROL BUILDING/AGROOD-2</b>					
1	KMS-003 / M/R-002						
2	KMS-003 / M/R-003						
3	RM SWITCHGEAR / KMS-003						
4	RM SWITCHGEAR / SOV-003						
5	RM PILOT CYLINDERS / KMS-001						
6	KMS-001 / M/R-001						
7	M/R-001 /SOV-001						
8	M/R-001 /SOV-002						
9	RM BATTERY RM / KMS-004						
10	KMS-004 / M/R-004						
11	M/R-004 / SOV-017						
12	M/R-004 / SOV-014						
13	RM TELECOM RM / KMS-005						
14	KMS-005 / M/R-005						
15	M/R-005 / SOV-018						
16	M/R-005 / SOV-015						
17	RM CONTROL RM / KMS-006						
18	KMS-006 / M/R-006						
19	M/R-006 / SOV-019						
20	M/R-006 / SOV-016						
21	AUX13 / COMMON FIRE ALARM						
22	AUX14 /CONFIRMED FIRE ALARM						
23	AUX15 / COMMON GAS ALARM						
24	AUX16 /CONFIRMED GAS ALARM						
25	AUX17 / COMMON EXTINGUISHING ALARM						
26	AUX18 / COMMON FAULT ALARM						
27	IO18 / REMOT ACTIVATION FOR TRANS. DELUGE VALVE						
28	AUX11 / HVAC TRIP						
29	AUX10 / START STANDBY FAN						
30	AUX19 / STOP AC BATTERY CHARGEING						
31	AUX20 / STOP DC BATTERY CHARGEING						
32	IO17 / TRANS. PRESSUER SWITCH HIGH						
33	RM CELLER ROOM / SOV-004						
34							
35							

**NOTE:**

Inspection result : A - Approved B - Reject C - Approved with Comment

NAME :	PETROJET	ENPPI	PMC
SIGNATURE	<i>Sobh</i>	<i>Islam</i>	<i>Mohamed Omar</i>
DATE			<i>12/9/2021</i>





# EGPC CRUDE OIL TANK FARM



INSPECTION AND TEST REPORT FOR

## CABLE TERMINATION AND SPLICING

INSPECTION REPORT NUMBER

118

INSPECTION DATE & TIME

ITR NUMBER

ITR-EL-0009

SYSTEM NO.:

DISPLINE

ELEC

SHEET NO

1 OF 1

Item/Tag NO.

Type :-

Core:

Size:

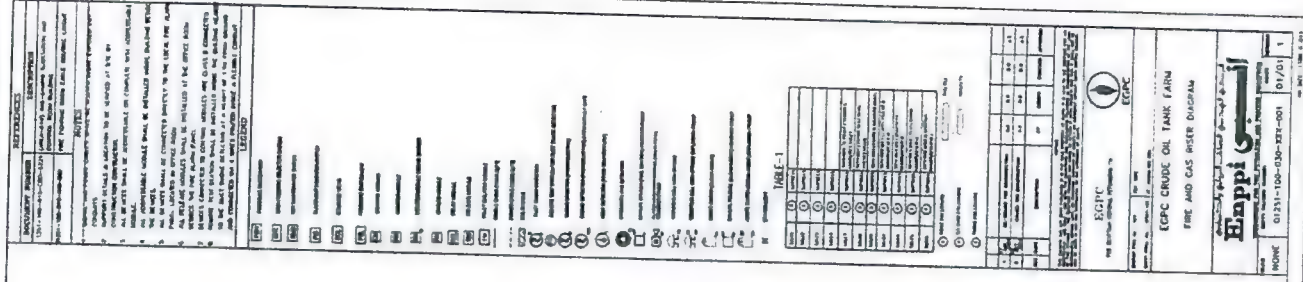
NO.	Description of check	RESULT		
		ACCEPT	REJECT	N/A.
1	Check cable glands are correct type and size as per cable schedule.	✓		
2	Check there are no damages to cores, termination chamber layout is satisfactory, core identification is correct, crimped and pins satisfactory.	✓		
3	Check cable tag is done correctly.			
4	Test and confirm conductor, phase continuity.			✓
5	Check insulation resistance test (megger) is completed *'	✓		
6	Check Hi-pot test is completed, only for MV/HV cables *''			✓
7	Connect all cores at both ends and confirm all connections are correct as per termination diagram.	✓		✓
8	Confirm spare cores, screens are earthed and conform to design drawings/specifications	✓		
9	Check enclosure cover is installed, no damages and no bolts are missing	X	X	
10	Calibration test certificate of testing equipment to be checked.			✓

Remarks :

enclosure CO

NAME :	PETROJET	ENPPI	PMC
SIGNATURE	Sobh	® Islam Sherif	
DATE			m. omor

ITR-EL-0009





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 12.08- FAT Reports & Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 12.09- SAT Reports & Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 12.10- Electrical Pre-Commissioning Check Lists



## PRE-COMMISSIONING CHECK LIST WATER SPRAY SYSTEM LP-04 A

**PROJECT TITLE** : EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Loss Prevention

**SYSTEM NAME** : Transformers & pumps water spray system

**SYSTEM ID** : 030-LP-009

**SUB-SYSTEM NAME** : Transformers & pumps water spray system

**SUB-SYSTEM ID** : 030-LP-009

**ITEM TAG No.** : 030-DV-002

**AREA** : 30

**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Check that the system is installed around protected equipment as per plot plan and equipment layout.	OK	
2	Check all deluge skid items as per deluge general arrangement drawing.	N/A	
3	Check all devices tags as per deluge P&ID.	OK	
4	Check that all devices are clarified where required.	N/A	
5	Check the piping installed as per piping GA and isometrics complete with vents and drains.	OK	
6	Check that all water spray pipe work on the protected equipment installed as per drawing.	OK	
7	Check that the deluge skid is earthed.	N/A	
8	Check that the water nozzle orientation is as per drawing.	N/A	
9	Check that deluge operation sign is in place and fixed properly.	OK	
10	Check wiring is properly installed as per drawing.	OK	
11	Check instrument system supply.	OK	

**REMARKS AND OBSERVATIONS :**

**OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.**

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME	Abdullah Fathy	Abdullah Fathy	Abdullah Fathy
SIGNATURE			
DATE			

## PRE-COMMISSIONING CHECK LIST WATER SPRAY SYSTEM LP-04 A

**PROJECT TITLE** : EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Loss Prevention

**SYSTEM NAME** : Transformers & pumps water spray system

**SYSTEM ID** : 030-LP-009

**SUB-SYSTEM NAME** : Transformers & pumps water spray system

**SUB-SYSTEM ID** : 030-LP-009

**ITEM TAG No.** : 030-DV-002

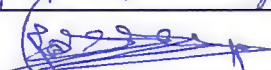

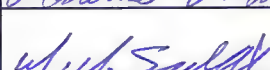
**AREA** : 30

**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Check all instrument air tubing installed and leak tested.	N/A	
13	Check fusible bulb installation and orientation.	N/A	
14	Check deluge skid junction box wiring as per supplier drawing.	N/A	

**REMARKS AND OBSERVATIONS :**

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME	Abdullah Fathy	Abdullah Fathy	Abdullah Fathy
SIGNATURE			
DATE			

## PRE-COMMISSIONING CHECK LIST WATER SPRAY SYSTEM LP-04 A

**PROJECT TITLE** : EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Loss Prevention

**SYSTEM NAME** : Transformers & pumps water spray system

**SYSTEM ID** : 030-LP-009

**SUB-SYSTEM NAME** : Transformers & pumps water spray system

**SUB-SYSTEM ID** : 030-LP-009

**ITEM TAG No.** : 030-DV-001

**AREA** : 30

**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Check that the system is installed around protected equipment as per plot plan and equipment layout.	OK	
2	Check all deluge skid items as per deluge general arrangement drawing.	N/A	
3	Check all devices tags as per deluge P&ID.	OK	
4	Check that all devices are clariberated where required.	N/A	
5	Check the piping installed as per piping GA and isometrics complete with vents and drains.	OK	
6	Check that all water spray pipe work on the protected equipement installed as per drawing.	OK	
7	Check that the deluge skid is earthed.	N/A	
8	Check that the water nozzle orientation is as per drawing.	N/A	
9	Check that deluge operation sign is in place and fixed properly.	OK	
10	Check wiring is properly installed as per drawing.	OK	
11	Check instrument system supply.	OK	

**REMARKS AND OBSERVATIONS :**

**OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.**

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME	Abdullah Fathy	Abdullah Fathy	Abdullah Fathy
SIGNATURE			
DATE			

## PRE-COMMISSIONING CHECK LIST WATER SPRAY SYSTEM LP-04 A

**PROJECT TITLE** : EGPC Crude Oil Tank Farms Project, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Loss Prevention

**SYSTEM NAME** : Transformers & pumps water spray system

**SYSTEM ID** : 030-LP-009

**SUB-SYSTEM NAME** : Transformers & pumps water spray system

**SUB-SYSTEM ID** : 030-LP-009

**ITEM TAG No.** : 030-DV-001


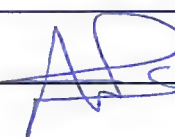
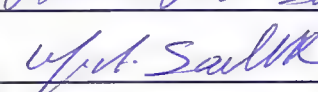
**AREA** : 30

**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Check all instrument air tubing installed and leak tested.	N/A	
13	Check fusible bulb installation and orientation.	N/A	
14	Check deluge skid junction box wiring as per supplier drawing.	N/A	

**REMARKS AND OBSERVATIONS :**

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME	Abdullah Alar Abdullatif	Abdullah Fathy	Mohamed Abdel Sadek
SIGNATURE			
DATE			





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 12.11- Electrical Supplier Check Lists & Reports



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

### 13- Electrical Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

### 13.01- Electrical -Commissioning Check Lists





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

### 13.02- Electrical Supplier Check Lists & Reports



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 14- Red Marked-up Drawings



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

14.01- P&ID



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

## 14.02- Instrumentation Drawings



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-LP-009
System Description	Transformers & pumps water spray system

### 14.03- Electrical Drawings